



**PATENT/Docket No.:** 01313.US1  
**Serial No.:** 10/647,982  
**Page No. 1**

**CERTIFICATE OF MAILING (37 CFR 1.8)**

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JULIE K. LYONS

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**Signature**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Art Unit : 1645  
Examiner : Not Yet Assigned  
Applicant(s) : PS Kaytes, C-H Teng  
Serial No. : 10/647,982  
Filed : August 26, 2003  
For : SINGLE NUCLEOTIDE POLYMORPHISMS DIAGNOSTIC FOR SCHIZOPHRENIA

Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT TRANSMITTAL  
UNDER 37 CFR 1.97 AND 1.98**

Sir:

**Information Disclosed.** The information disclosed consists of the following:

- [X] **Form PL-1449.** Provided herewith are copies of patent(s) and/or publication(s) as listed in the attached form PL-1449.
- [X] At least to the extent required under §1.98(a)(3), a concise explanation of the relevance of references listed in form PL-1449 is:
- [ ] contained in the above-captioned specification as filed;
  - [ ] provided in a communication enclosed with this paper;
  - [ ] provided in the International Search Report enclosed with this paper; and/or
  - [X] not necessary as all of the references cited are in the English language.

- ☐ **Disclosure from Predecessor Application.** Provided herewith is a copy (or the copy is already present in the present file wrapper in accordance with §1.53(d)) of one or more forms PL-1449 and/or search/examination reports of record in this or a predecessor application, Serial No. filed , the benefit of which is claimed under 35 USC 120. Copies of references are present in the prosecution history of the referenced application and are not supplied herewith pursuant to §1.98(d).

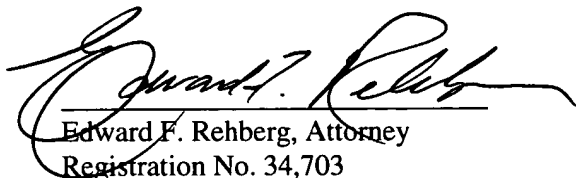
**Basis for Consideration.** This information disclosure statement is entitled to consideration by the Office under:

- ☒ **§1.97(b)**, as being filed within three months of the filing date of the above-captioned application and/or the date of entry of the National Stage, if later, and/or before the mailing date of the first Office action on the merits. Applicant(s) is/are unaware that any office action has issued in this case. However, in the event a first office action has issued, prior to the mailing of this document, then authorization is given to charge the late fee to the deposit account identified below.
- ☐ **§1.97(c)**, as being filed after the period specified in §1.97(b), but before the mailing date of a final action under §1.113 and/or the notice of allowance under §1.311. Consideration of this information disclosure statement at this time is requested for the reason checked below:
- ☐ **Authorization is hereby provided to charge Deposit Account No. 21-0718 the fee set forth in §1.17(p), \$180.00**, or such greater or lesser amount as the Commissioner may from time to time prescribe by rule. Triplicate copies of this paper are provided to facilitate the charge to the Deposit Account.
- ☐ A statement as specified in 37 CFR 1.97(e) below.
- ☐ **§1.97(d)**, as being filed after the period specified in §1.97(c), but on or before payment of the issue fee and is accompanied by:
- ☐ **Authorization to charge Deposit Account No. 21-0718 the fee set forth in §1.17(i), \$130.00**, or such greater or lesser amount as the Commissioner may from time to time prescribe by rule. Triplicate copies of this paper are provided to facilitate the charge to the Deposit Account.
- ☐ A petition requesting consideration of the information disclosure statement; and
- ☐ A statement as specified in 37 CFR 1.97 (e) below.
- ☐ **§1.97(e)**, this is a **supplemental information disclosure statement**. A prior information disclosure statement has already been filed. Applicant certifies, as provided in 37 CFR 1.97 (e), that

- ☐ Each new item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of this statement.
- ☐ No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing below, after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three (3) months prior to the filing of this statement.

**Disclaimer.** In accordance with §1.97(g) and (h), the filing of this information disclosure statement is not to be construed as an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56, and is not to be construed as a representation that a search has been made.

Respectfully submitted,

  
Edward F. Rehberg, Attorney  
Registration No. 34,703

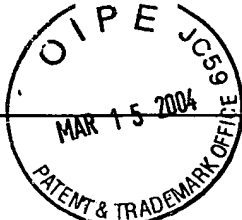
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Attachment(s)

- ☒ Form 1449 with copies of reference(s)  
☐ Form 1449 from predecessor application (no references)  
☐ Communication providing concise explanation of relevance  
☐ International Search Report



# LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

Atty. Docket No.

01313.US1

Serial No.

10/647,982

Applicant PS Kaytes, C-H Teng

Filing Date August 26, 2003

Group 1645

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	AA	4,683,202	7/28/1987	Mullis	C12P	19/34	10/25/1985
	AB	5,034,506	7/23/1991	Summerton, et. al.	C08G	75/18	12/20/1989
	AC	5,075,217	12/24/1991	Weber	C12Q	1/68	4/21/1989
	AD	5,142,047	8/25/1992	Summerton, et. al.	C07D	413/04	9/23/1987
	AE	5,185,444	2/9/1993	Summerton, et. al.	C07D	413/12	11/21/1991
	AF	5,424,186	6/13/1994	Fodor, et. al.	C12Q	1/68	12/6/1991
	AG	5,856,104	1/5/1999	Chee, et. al.	C12Q	1/68	3/7/1997
	AH	6,071,722	6/6/2000	Elshourbagy, et. al.	C12N	15/12	2/16/1999
	AI						

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AJ	WO89/11548	11/30/1989	WIPO	C12Q	1/68	X	
	AK	WO90/11369	10/4/1990	WIPO	C12Q	1/68	X	
	AL	WO90/13668	11/15/1990	WIPO	C12Q	1/68	X	
	AM	WO91/14003	9/19/1991	WIPO	C12Q	1/68	X	
	AN	WO92/10092	6/25/1992	WIPO	A01N	1/02	X	
	AO	WO93/22456	11/11/1993	WIPO	C12Q	1/68	X	
	AP	WO95/04064	2/9/1995	WIPO	C07H	17/00	X	
	AQ	WO95/11995	5/4/1995	WIPO	C12Q	1/68	X	
	AR	WO98/20165	11/5/1997	WIPO	C12Q	1/68	X	
	AS	WO01/36473	5/25/2001	WIPO	C07K	14/00	X	
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	AU	EP235726	5/19/1993	Europe	C12Q	1/68	X	
	AV	EP370719	5/30/1990	Europe	C12Q	1/68	X	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<b>LIST OF REFERENCES CITED BY APPLICANT</b> <i>(Use several sheets if necessary)</i>		Atty. Docket No. 01313.US1	Serial No. 10/647,982
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		Filing Date      August 26, 2003	Group      1645
	AW	Ajioka, R.S., et al., <i>Haplotype analysis of hemochromatosis: evaluation of different linkage- disequilibrium approaches and evolution of disease chromosomes</i> . Am J Hum Genet, 1997. <b>60</b> (6): p. 1439-47.	
	AX	Armour, J.A. and A.J. Jeffreys, <i>Recent advances in minisatellite biology</i> . FEBS Lett, 1992. <b>307</b> (1): p. 113-5.	
	AY	Botstein, D., et al., <i>Construction of a genetic linkage map in man using restriction fragment length polymorphisms</i> . Am J Hum Genet, 1980. <b>32</b> (3): p. 314-31	
	AZ	Clark, A.G., <i>Inference of haplotypes from PCR-amplified samples of diploid populations</i> . Mol Biol Evol, 1990. <b>7</b> (2): p. 111-22	
	BA	Clayton, D., <i>A generalization of the transmission/disequilibrium test for uncertain- haplotype transmission</i> . Am J Hum Genet, 1999. <b>65</b> (4): p. 1170-7	
	BB	Donis-Keller, H., et al., <i>A genetic linkage map of the human genome</i> . Cell, 1987. <b>51</b> (2): p. 319-37.	
	BC	Excoffier, L. and M. Slatkin, <i>Maximum-likelihood estimation of molecular haplotype frequencies in a diploid population</i> . Mol Biol Evol, 1995. <b>12</b> (5): p. 921-7	
	BD	Germer, S. and R. Higuchi, <i>Single-tube genotyping without oligonucleotide probes</i> . Genome Res, 1999. <b>9</b> (1): p. 72-8	
	BE	Gibbs, R.A., P.N. Nguyen, and C.T. Caskey, <i>Detection of single DNA base differences by competitive oligonucleotide priming</i> . Nucleic Acids Res, 1989. <b>17</b> (7): p. 2437-48	
	BF	Guatelli, J.C., et al., <i>Isothermal, in vitro amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication</i> . Proc Natl Acad Sci U S A, 1990. <b>87</b> (5): p. 1874-8	
	BG	Gusella, J.F., <i>DNA polymorphism and human disease</i> . Annu Rev Biochem, 1986. <b>55</b> : p. 831-54	
	BH	Hacia, J.G., et al., <i>Detection of heterozygous mutations in BRCA1 using high density oligonucleotide arrays and two-colour fluorescence analysis</i> . Nat Genet, 1996. <b>14</b> (4): p. 441-7	
	BI	Hawley, M.E. and K.K. Kidd, <i>HAPLO: a program using the EM algorithm to estimate the frequencies of multi-site haplotypes</i> . J Hered, 1995. <b>86</b> (5): p. 409-11	
	BJ	Howard, T.D., E.R. Bleecker, and O.C. Stine, <i>Fluorescent allele-specific PCR (FAS-PCR) improves the reliability of single nucleotide polymorphism screening</i> . Biotechniques, 1999. <b>26</b> (3): p. 380-1	
	BK	Kozal, M.J., et al., <i>Extensive polymorphisms observed in HIV-1 clade B protease gene using high-density oligonucleotide arrays</i> . Nat Med, 1996. <b>2</b> (7): p. 753-9	
	BL	Kwoh, D.Y., et al., <i>Transcription-based amplification system and detection of amplified human immunodeficiency virus type 1 with a bead-based sandwich hybridization format</i> . Proc Natl Acad Sci U S A, 1989. <b>86</b> (4): p. 1173-7	
	BM	Landegren, U., et al., <i>A ligase-mediated gene detection technique</i> . Science, 1988. <b>241</b> (4869): p. 1077-80	
	BN	Landegren, U., M. Nilsson, and P.Y. Kwok, <i>Reading bits of genetic information: methods for single-nucleotide polymorphism analysis</i> . Genome Res, 1998. <b>8</b> (8): p. 769-76.	
	BO	Lander, E.S. and D. Botstein, <i>Mapping mendelian factors underlying quantitative traits using RFLP linkage maps</i> . Genetics, 1989. <b>121</b> (1): p. 185-99	

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	BP	Lander, E.S. and N.J. Schork, <i>Genetic dissection of complex traits</i> . Science, 1994. <b>265</b> (5181): p. 2037-48	
	BQ	Livak, K.J., J. Marmaro, and J.A. Todd, <i>Towards fully automated genome-wide polymorphism screening</i> . Nat Genet, 1995. <b>9</b> (4): p. 341-2	
	BR	Mattila, P., et al., <i>Fidelity of DNA synthesis by the Thermococcus litoralis DNA polymerase-- an extremely heat stable enzyme with proofreading activity</i> . Nucleic Acids Res, 1991. <b>19</b> (18): p. 4967-73	
	BS	Newton, C.R., et al., <i>Analysis of any point mutation in DNA. The amplification refractory mutation system (ARMS)</i> . Nucleic Acids Res, 1989. <b>17</b> (7): p. 2503-16	
	BT	Nickerson, D.A., V.O. Tobe, and S.L. Taylor, <i>PolyPhred: automating the detection and genotyping of single nucleotide substitutions using fluorescence-based resequencing</i> . Nucleic Acids Res, 1997. <b>25</b> (14): p. 2745-51	
	BU	Nielsen, P.E., et al., <i>Sequence-selective recognition of DNA by strand displacement with a thymine-substituted polyamide</i> . Science, 1991. <b>254</b> (5037): p. 1497-500	
	BV	Orita, M., et al., <i>Detection of polymorphisms of human DNA by gel electrophoresis as single-strand conformation polymorphisms</i> . Proc Natl Acad Sci U S A, 1989. <b>86</b> (8): p. 2766-70	
	BW	Perlin, M.W., et al., <i>Toward fully automated genotyping: allele assignment, pedigree construction, phase determination, and recombination detection in Duchenne muscular dystrophy</i> . Am J Hum Genet, 1994. <b>55</b> (4): p. 777-87	
	BX	Ruano, G., K.K. Kidd, and J.C. Stephens, <i>Haplotype of multiple polymorphisms resolved by enzymatic amplification of single DNA molecules</i> . Proc Natl Acad Sci U S A, 1990. <b>87</b> (16): p. 6296-300.	
	BY	Saiki, R.K., et al., <i>Analysis of enzymatically amplified beta-globin and HLA-DQ alpha DNA with allele-specific oligonucleotide probes</i> . Nature, 1986. <b>324</b> (6093): p. 163-6.	
	BZ	Sarkar, G. and S.S. Sommer, <i>Haplotyping by double PCR amplification of specific alleles</i> . Biotechniques, 1991. <b>10</b> (4): p. 436, 438, 440	
	CA	Schaid, D.J., <i>General score tests for associations of genetic markers with disease using cases and their parents</i> . Genet Epidemiol, 1996. <b>13</b> (5): p. 423-49	
	CB	Shoemaker, D.D., et al., <i>Quantitative phenotypic analysis of yeast deletion mutants using a highly parallel molecular bar-coding strategy</i> . Nat Genet, 1996. <b>14</b> (4): p. 450-6	
	CC	Spielman, R.S., R.E. McGinnis, and W.J. Ewens, <i>Transmission test for linkage disequilibrium: the insulin gene region and insulin-dependent diabetes mellitus (IDDM)</i> . Am J Hum Genet, 1993. <b>52</b> (3): p. 506-16	
	CD	Spielman, R.S. and W.J. Ewens, <i>A sibship test for linkage in the presence of association: the sib transmission/disequilibrium test</i> . Am J Hum Genet, 1998. <b>62</b> (2): p. 450-8	
	CE	Tyagi, S., D.P. Bratu, and F.R. Kramer, <i>Multicolor molecular beacons for allele discrimination</i> . Nat Biotechnol, 1998. <b>16</b> (1): p. 49-53	
	CF	Wu, D.Y. and R.B. Wallace, <i>The ligation amplification reaction (LAR)--amplification of specific DNA sequences using sequential rounds of template-dependent ligation</i> . Genomics, 1989. <b>4</b> (4): p. 560-9.	
	CG	Zhao, L.P., et al., <i>Mapping of complex traits by single-nucleotide polymorphisms</i> . Am J Hum Genet, 1998. <b>63</b> (1): p. 225-40	

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